

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference ANVIL.001BPC	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US05/36987	International filing date (day/month/year) 13 October 2005	(Earliest) Priority Date (day/month/year) 13 October 2004
Applicant ANVIL MEDICAL, INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of:

- the international application in the language in which it was filed
 a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. Certain claims were found unsearchable (see Box No. II)

3. Unity of invention is lacking (see Box No. III)

4. With regard to the title,

- the text is approved as submitted by the applicant
 the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant
 the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 1
 as suggested by the applicant
 as selected by this Authority, because the applicant failed to suggest a figure
 as selected by this Authority, because this figure better characterizes the invention
- b. none of the figures is to be published with the abstract

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Group I, claims 1-11, 14-28, drawn to a prosthesis and deployment catheter system having at least one frond.

Group II, claims 12-13, drawn to a prosthesis and deployment system assembly, comprising: a catheter body; a balloon on the body, the balloon having an inflated profile

Group III, claim 29, drawn to a dual guidewire catheter for treating vascular bifurcation.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of a prosthesis and deployment catheter system having at least one frond as in Group I is not present in Groups II or III; the special technical feature of a prosthesis and deployment system assembly, comprising: an elongate, flexible catheter body; a balloon on the body, the balloon having an inflated profile with a first section having a first diameter, a second section having a second diameter, and a balloon transition in between the first and second sections; and a prosthesis carried by the balloon; wherein the prosthesis has a wall having a first wall pattern adjacent the first section of the balloon, and a second wall pattern adjacent the balloon transition of Group II is not present in Group I and/or Group III; the special technical feature of the specifics of a dual guidewire catheter for treating vascular bifurcation as in Group III is not present in Groups I or II.

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-11 and 14-28

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/36987

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61F00206 (2006.01) USPC - 623/1.35, 1.15, 1.16 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC(8) - A61F 002/06 (2006.01) USPC - 623/1.35		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Micropatent, USPAT, USPGPUB, Entrez PubMed		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,868,777 A (LAM) 09 February 1999 (09.02.1999) entire document, col 3 ln 42-54	1-11, 14-28
A	US 6,663,665 B2 (SHAOILIAN et al) 16 December 2003 (16.12.2003) entire document	1-11, 14-28
A	US 6,663,666 B1 (QUIACHON et al) 16 December 2003 (16.12.2003) entire document	1-11, 14-28
A	US 6,682,557 B1 (QUIACHON et al) 27 January 2004 (27.01.2004) entire document	1-11, 14-28
A	US 6,325,826 B1 (VARDI et al) 04 December 2001 (04.12.2001) entire document	1-11, 14-28
A	US 6,210,429 B1 (VARDI et al) 03 April 2001 (03.04.2001) entire document	1-11, 14-28
A	US 6,599,316 B2 (VARDI et al) 29 July 2003 (29.07.2003) entire document	1-11, 14-28
A	US 6,596,020 B2 (VARDI et al) 22 July 2003 (22.07.2003) entire document	1-11, 14-28
A	US 4,994,071 A (MACGREGOR) 19 February 1991 (19.02.1991) entire document	1-11, 14-28
A	US 5,102,417 A (PALMAZ) 07 April 1992 (07.04.1992) entire document	1-11, 14-28
A	US 5,342,387 A (SUMMERS) 30 August 1994 (30.08.1994) entire document	1-11, 14-28
A	US 5,507,769 A (MARIN et al) 16 April 1996 (16.04.1996) entire document	1-11, 14-28
A	US 5,575,817 A (MARTIN) 19 November 1996 (19.11.1996) entire document	1-11, 14-28
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report	
10 March 2006	05 JUN 2006	
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/JS, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee. W. Young Telephone No. 571-272-7774	